

# Work Order ID 60058

June 24, 2010 8:02:05 AM

Page 1

Item ID: D4003-1

Accept

Setup

Start

Revision ID:

Stop

Item Name: Internal Drain Line, Aft

Start Date: 6/24/10 Start Qty: 2.00

Cust Item ID:

Required Date: 6/25/10 Req'd Qty: 2.00

Customer:

Reference:

Run

Start

Approvals: Process Plan: *W*

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

D4003

A

0.00

100



Small Fab

Small Fab

Memo

1- Cut tube xxx" long

2- Bend as per dwg

0.00

*=> m.k w/06/28*

110



QC

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

*Subabs*

*(2)*

170



Packaging

Packaging

Identify as per dwg & Stock Location: *116*

Memo

0.00

0.00

*Pack/22*

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 60058**

June 24, 2010 8:02:05 AM



Page 2

Item ID: D4003-1

Accept



Setup Start



Revision ID:

Stop



Item Name: Internal Drain Line, Aft

Start Date: 6/24/10 Start Qty: 2.00



Cust Item ID:

Required Date: 6/25/10 Req'd Qty: 2.00



Customer:

Reference:

Run Start



Stop



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

180

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/06/29 JF

mf 10-6-29

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

June 24, 2010 8:02:04 AM

Page 1

Work Order ID: 60058



Parent Item: D4003-1



Parent Item Name: Internal Drain Line, Aft

Start Date: 6/24/10

Required Date: 6/25/10

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP rev A 10.01.12 new issue prelim EC verified by:DD IPP Rev B  
10.05.13 ecn 10-562 EC verified by:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6T0.250W.035 		Purchased		No		100	f	8.5000	0.5	1			
6061-T6 RD Tube .250 x.035W													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MAT013		8.5							
				113914		8.5							

1.000

M-L  
w/06/28

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

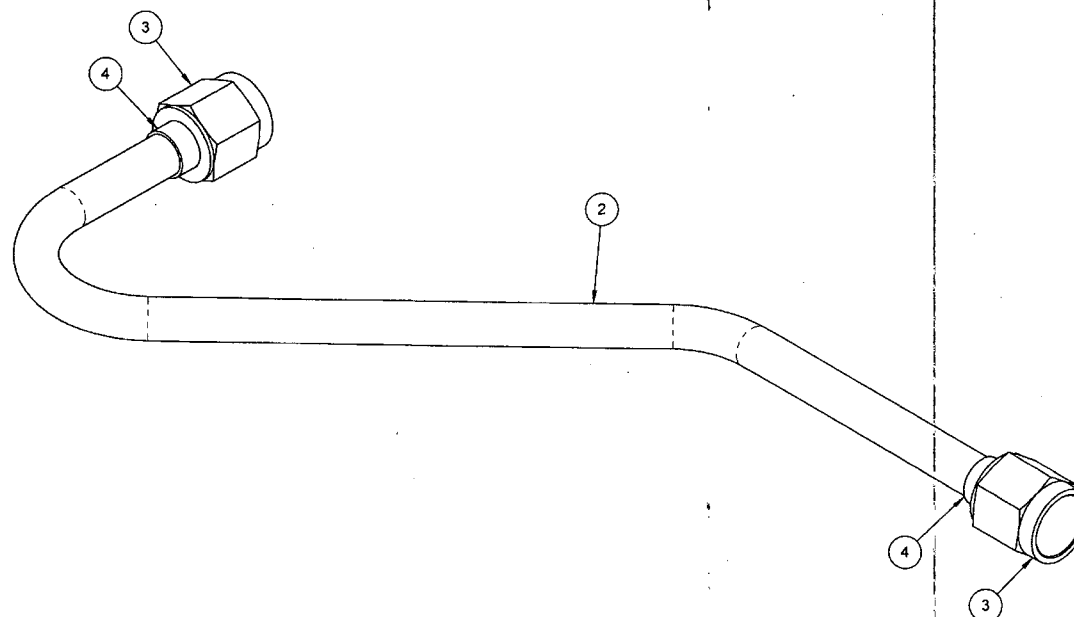
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

ITEM NO.	QTY. -047	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4003-047	FUEL PUMP INLET PIPE	JCA-M47-2-16
2	1	D4003-7	FUEL INLET PIPE	
3	2	AN818-6D	NUT	
4	2	MS20819-6D	SLEEVE	



**D4003-047 FUEL PUMP INLET PIPE**

**RELEASED**  
2010-05-05  
MP

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4003-047" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.07 lbs

A	NEW ISSUE		BY	DATE
REV.	DESCRIPTION			
DESIGN				
DRAWN				
CHECKED				
MFG. APPR.				
APPROVED				
DE APPR.				
DATE	10.02.05			

<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA		REV. A
DRAWING NO.	D4003	SHEET 1 OF 9
TITLE	LINE	SCALE
		NTS

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W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

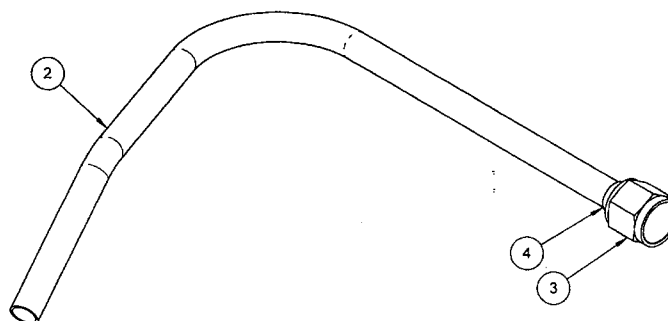
Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



ITEM NO.	QTY. .049	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4003-049	TANK VENT LINE ASSEMBLY	JCA-M47-2-17
2	1	D4003-9	VENT LINE	
3	1	AN818-8D	NUT	
4	1	MS20819-8D	SLEEVE	



**D4003-049 TANK VENT LINE ASSEMBLY**

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4003-049" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.11 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
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CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4003	SHEET 2 OF 9
APPROVED		TITLE	SCALE
DE APPR.		LINE	NTS
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**RELEASED**  
2010-05-05  
MD

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

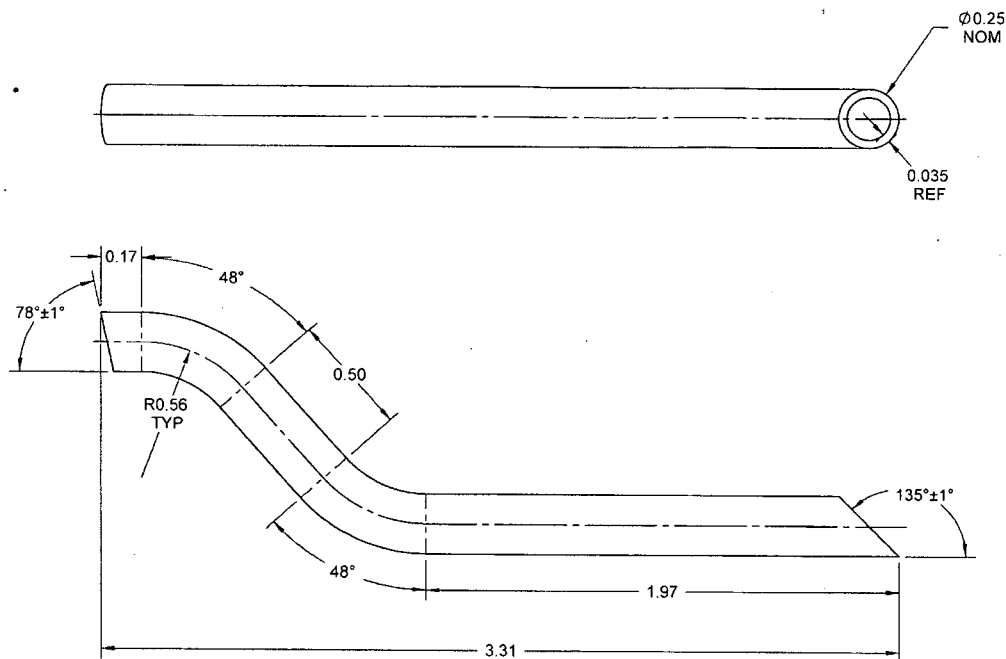
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Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-1	REF JCA-M47-1-06



**D4003-1 INTERNAL DRAIN LINE, AFT**

**NOTES:**

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING,  $\phi 0.25 \times 0.035$  WALL THICKNESS PER VVV-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8 REF DART SPEC 6061T6T0.250W.035
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.01 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
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CHECKED		DRAWING NO.	REV. A
MFG. APPR.		<b>D4003</b>	SHEET 3 OF 9
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**RELEASED**  
2010-05-05  
WJ

*WJ*  
*booss*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

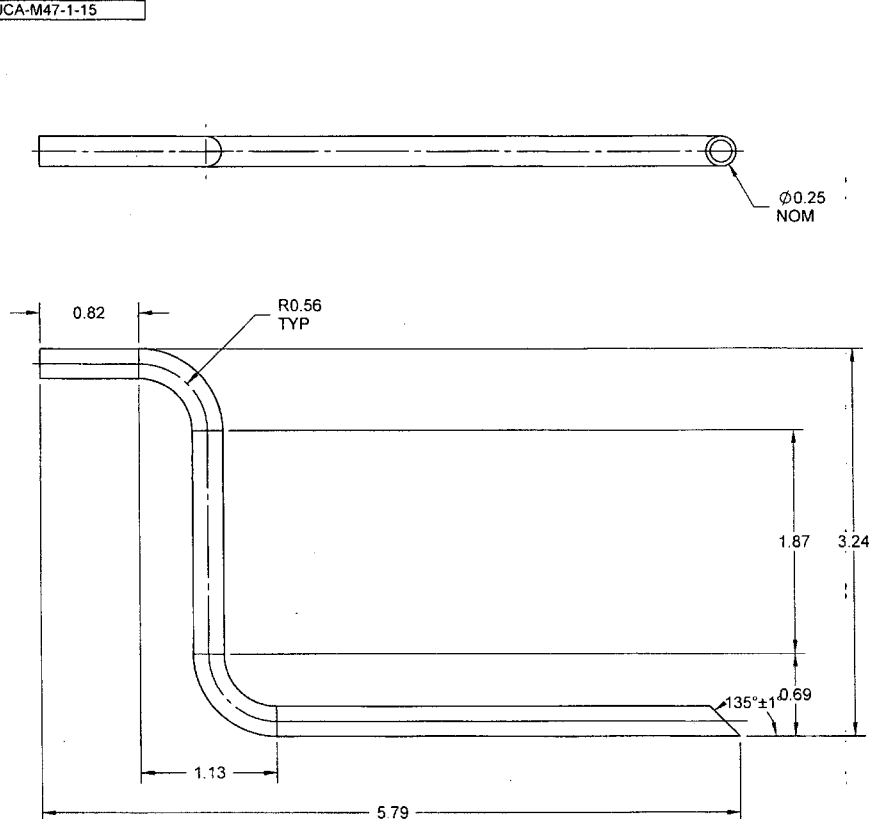
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Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-3	REF JCA-M47-1-15



**D4003-3 INTERNAL DRAIN LINE, FWD**

**NOTES:**

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING,  $\phi 0.25 \times 0.035$  WALL THICKNESS  
PER WW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8  
REF DART SPEC 6061T6T0.250W.035
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. <b>D4003</b>	REV. A
MFG. APPR.			SHEET 4 OF 9
APPROVED		TITLE <b>LINE</b>	SCALE
DE APPR.			NTS
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**RELEASED**  
2010-05-05  
MP

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

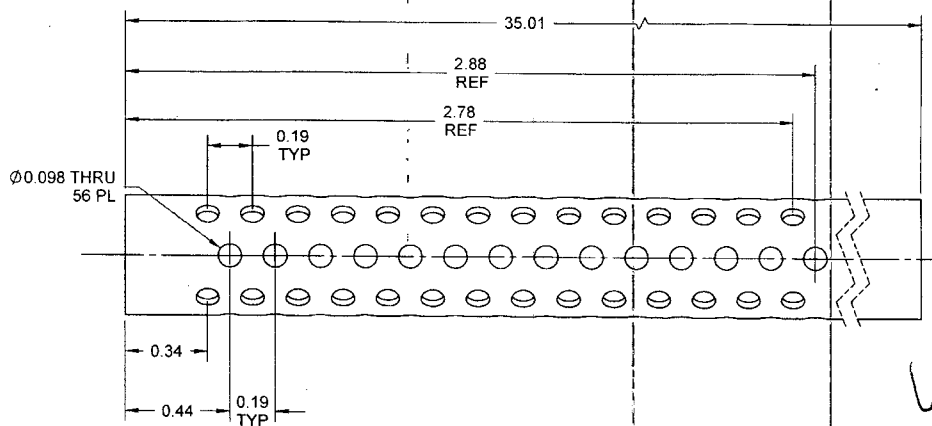
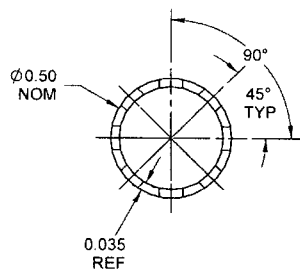
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Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-5	REF JCA-M47-1-10



# **D4003-5 FUEL PICK UP LINE**

**RELEASED**  
2010-05-05  
MD

## **NOTES:**

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING,  $\phi 0.500 \times 0.035$  WALL THICKNESS  
REF WW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8  
REF DAT SPEC M6061T6T0.500W.035
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.17 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. <b>D4003</b>	REV. A
MFG. APPR.		TITLE <b>LINE</b>	SHEET 5 OF 9
APPROVED		SCALE	NTS
DE APPR.		DATE <b>10.02.05</b>	

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W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

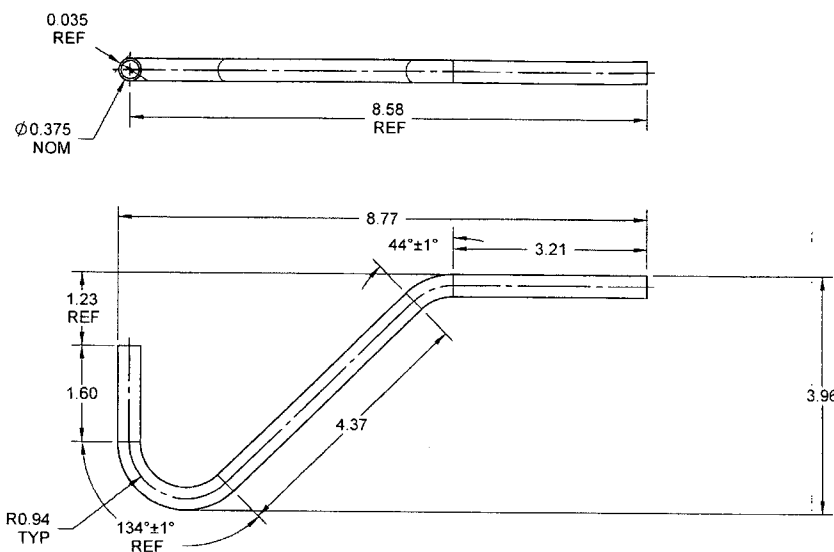
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-7	REF JCA-M47-2-16



**D4003-7 FUEL INLET PIPE**

**NOTES:**

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING.  $\phi 0.375 \times 0.035$  WALL THICKNESS PER WW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8 REF DART SPEC M6061T6T0.375W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.04 lbs

DESIGN		<b>DART AEROSPACE LTD</b>
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. <b>D4003</b>
MFG. APPR.		REV. A
APPROVED		SHEET 6 OF 9
DE APPR.		TITLE LINE SCALE NTS
DATE	10.02.05	COPYRIGHT © 2010 BY DART AEROSPACE LTD
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**RELEASED**  
2010-05-05  
WJ

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

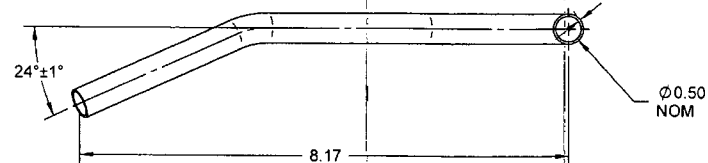
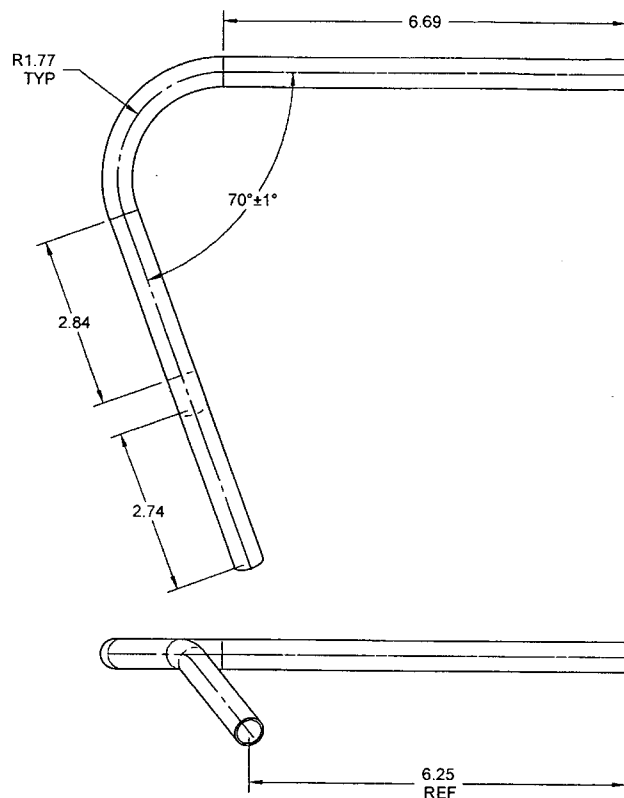
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Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-9	REF JCA-M47-2-17



**D4003-9 VENT LINE**

**RELEASED**  
2010-05-05  
WNT

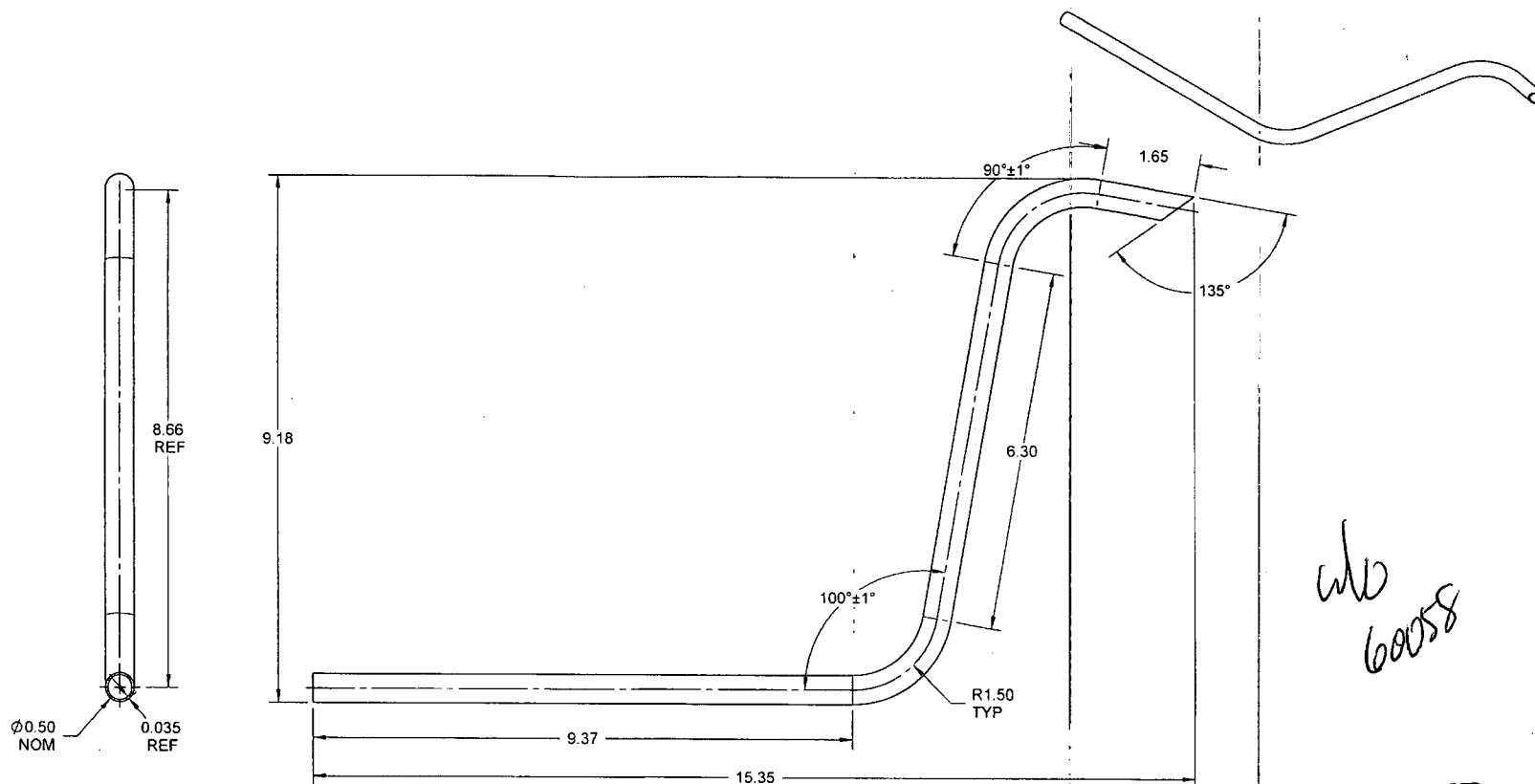
**NOTES:**

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING,  $\phi 0.500 \times 0.035$  WALL THICKNESS  
PER WW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8  
REF DART SPEC M6061T60.500W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.08 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. <b>D4003</b>	REV. A
MFG. APPR.		TITLE	SHEET 7 OF 9
APPROVED		LINE	SCALE
DE APPR.			NTS
DATE	10.02.05		

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DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-11	JCA-M47-2-21



**D4003-11 VENT PIPE - TANK**

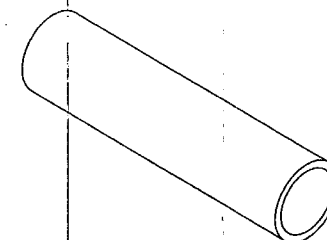
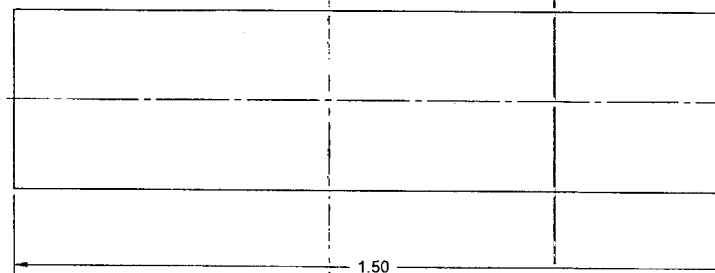
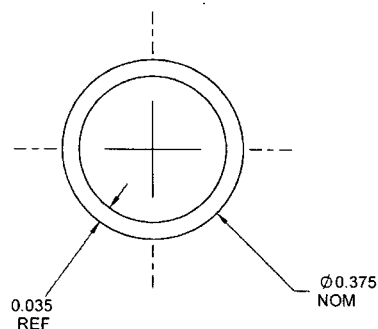
**RELEASED**  
2010-05-05  
MP

**NOTES:**

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, Ø0.500 X 0.035 WALL THICKNESS  
PER WW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8  
REF DART SPEC M6061T60.500W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4003-11" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.11 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. <b>D4003</b>	REV. A
MFG. APPR.			SHEET 8 OF 9
APPROVED		TITLE	SCALE
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DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-13	REF JCA-M47-2-22



*W/O  
60058*

# **D4003-13 FORWARD FUEL GUTTER LINE**

**RELEASED**  
2010-05-05  
*W/O*

## **NOTES:**

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, Ø0.375 X 0.035 WALL THICKNESS  
PER WW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8  
REF DART SPEC M6061T6T0.375W.035
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.01 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4003	SHEET 9 OF 9
APPROVED		TITLE	SCALE
DE APPR.		LINE	NTS
DATE	10.02.05	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	